```
//dsabda 11
//WC_Mapper.java
package org.codewitharjun;
import java.io.IOException;
import java.util.StringTokenizer;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.LongWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapred.MapReduceBase;
import org.apache.hadoop.mapred.Mapper;
import org.apache.hadoop.mapred.OutputCollector;
import org.apache.hadoop.mapred.Reporter;
public class WC_Mapper extends MapReduceBase implements Mapper<LongWritable,Text,Text,IntWritable>{
  private final static IntWritable one = new IntWritable(1);
  private Text word = new Text();
  public void map(LongWritable key, Text value, OutputCollector<Text, IntWritable > output,
          Reporter reporter) throws IOException{
    String line = value.toString();
    StringTokenizer tokenizer = new StringTokenizer(line);
    while (tokenizer.hasMoreTokens()){
      word.set(tokenizer.nextToken());
      output.collect(word, one);
    }
  }
}
//WC_Reducer.java
package org.codewitharjun;
import java.io.IOException;
import java.util.Iterator;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapred.MapReduceBase;
import org.apache.hadoop.mapred.OutputCollector;
import org.apache.hadoop.mapred.Reducer;
import org.apache.hadoop.mapred.Reporter;
public class WC_Reducer extends MapReduceBase implements Reducer<Text,IntWritable,Text,IntWritable> {
  public void reduce(Text key, Iterator<IntWritable> values,OutputCollector<Text,IntWritable> output,
            Reporter reporter) throws IOException {
    int sum=0;
    while (values.hasNext()) {
      sum+=values.next().get();
    }
    output.collect(key,new IntWritable(sum));
  }
}
```

```
//WC_Runner.java
package org.codewitharjun;
import java.io.IOException;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapred.FileInputFormat;
import org.apache.hadoop.mapred.FileOutputFormat;
import org.apache.hadoop.mapred.JobClient;
import org.apache.hadoop.mapred.JobConf;
import org.apache.hadoop.mapred.TextInputFormat;
import org.apache.hadoop.mapred.TextOutputFormat;
public class WC_Runner {
  public static void main(String[] args) throws IOException{
    JobConf conf = new JobConf(WC_Runner.class);
    conf.setJobName("WordCount");
    conf.setOutputKeyClass(Text.class);
    conf.setOutputValueClass(IntWritable.class);
    conf.setMapperClass(WC_Mapper.class);
    conf.setCombinerClass(WC_Reducer.class);
    conf.setReducerClass(WC_Reducer.class);
    conf.setInputFormat(TextInputFormat.class);
    conf.setOutputFormat(TextOutputFormat.class);
    FileInputFormat.setInputPaths(conf,new Path(args[0]));
    FileOutputFormat.setOutputPath(conf,new Path(args[1]));
    JobClient.runJob(conf);
  }
}
```

## //output

```
Desktop — arjungautam@Arjuns-MacBook-Pro — ~/Desktop — -zsh — 80×24
Be sure to subscribe my youtube channel Code With Arjun
Code With Arjun
   Desktop hadoop fs -mkdir /input
2022-10-10 00:46:08,064 WARN util.NativeCodeLoader: Unable to load native-hadoog
 library for your platform... using builtin-java classes where applicable
Desktop hadoop fs -put input.txt /input
2022-10-10 00:46:37,042 WARN util.NativeCodeLoader: Unable to load native-hadoop
 library for your platform... using builtin-java classes where applicable
   Desktop hadoop fs -cat /output/part-00000
2022-10-10 00:49:56,588 WARN util.NativeCodeLoader: Unable to load native-hadoog
 library for your platform... using builtin-java classes where applicable
Arjun
        1
Be
Code
        3
With
        3
        1
channel 2
is
        1
        1
my
                            I
subscribe
                1
sure
        1
to
youtube 2
   Desktop
```